

**AMENDMENTS TO THE CLAIMS**

The listing of claims below will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (Original) An underwater discharge core comprises:
  - a frame having a rectangle opening,
  - a first platinum plate mesh made of conductive material for mounting to said frame,
  - an insulation plate meshes disposed over said first platinum plate meshes,
  - a second platinum plate mesh made of conductive material overlapped said insulation plate meshes and first platinum plate meshes.
2. (Original) An underwater discharge core as claimed in claim 1, wherein said first platinum plate mesh and second platinum plate mesh mounted on the frame are arranged to misalign square meshes.
3. (Original) An underwater discharge core as claimed in claim 2, wherein said first platinum plate mesh and second platinum plate mesh have a plurality of uniform minute square meshes, and the projected square meshes of said first and second platinum plate meshes have clearance one-half of said square meshes.
4. (Original) An underwater discharge core as claimed in claim 1, wherein said insulation plate meshes is disposed between said first platinum plate mesh and second platinum plate mesh.

5. (Original) An underwater discharge core as claimed in claim 1, further comprises that at least one side of said frame has a plurality of protrusions for mounting said first platinum plate mesh, insulation plate and second platinum plate mesh.

6. (Original) An underwater discharge core as claimed in claim 1, further comprises that at least one pair of retainer and retainer clip is installed to fix said first platinum plate mesh, insulation plate and second platinum plate on the frame.

- 7. Cancelled
- 8. Cancelled
- 9. Cancelled
- 10. Cancelled
- 11. Cancelled
- 12. Cancelled

13. (Currently Amended) An underwater discharge core as claimed ~~[one of]~~ in claim 1 ~~[to claim 12]~~, wherein said first platinum plate mesh and second platinum plate mesh are made of the platinum group, solid Iridium, solid platinum plated Iridium or plated platinum.

- 14. Cancelled

15. (Original) A sterilized water generator comprises:  
a container filled with water,  
an underwater discharging core consisted of a rectangular-shape frame, a first and second platinum plate meshes made of conductive material, an insulation plate made of non-conductive material installed on the frame,  
said container installed at least one underwater discharging

core, and

a power supply unit and control system for supplying power to say first and second platinum plate mesh cells to perform underwater discharge.

16. (Original) A sterilized water generator as claimed in claim 15, wherein said container is used as a water storage tank.

17. (Original) A sterilized water generator as claimed in claim 15, wherein said container is a water flow pipeline.

18. (Original) A sterilized water generator as claimed in claim 15, further comprises:

a thermal sensor installed inside of the container for sensing operating water temperature, and

a control system to cut off the power to the underwater discharging core for preventing overheating the system based on the sensed operating water temperature.

19. (Currently Amended) A sterilized water generator as claimed [one of] in claim 15 [~~to claim 18~~], wherein said first platinum plate mesh and second platinum plate mesh are made of the platinum group, solid Iridium, solid platinum plated Iridium or plated platinum.

20. Cancelled

21. Cancelled

22. (Original) A sterilized water supplying system comprises:

a sterilized water generator consisted of at least one underwater discharge core equipped with an alternative power supply and control system for alternatively supplying power to a set of positive and negative

terminals of platinum plate meshes,

a water storage tank for storing the produced sterilized water,

a filtration unit for filtering the foreign objects from the supplied water, and

a power source/controlling unit for controlling the sterilized water generator.

23. (Original) A sterilized water supplying system as claimed in claim 22, further comprises a water pump disposed between the filtration unit and the sterilized water generator.

24. (Original) A sterilized water supplying system as claimed in claim 23, further comprises a first vale for controlling the water supply to the system by the power source/controlling unit, a second valve disposed between the sterilized water generator and the water storage tank to allow water flow one direction.

25. (Original) A sterilized water supplying system as claimed in claim 23, further comprises a thermal sensor installed inside the sterilized water generator for sensing the operating water temperature to prevent overheating the system.

26. (Original) A sterilized water supplying system as claimed in claim 23, further comprise's a third valve controlled by the controlling unit for supplying the water to system, and a sensor installed inside of the water storage tank for sensing the water level.

27. Cancelled

28. Cancelled

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35. Cancelled
36. Cancelled
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40. Cancelled
41. Cancelled

42. (Original) An underwater discharge core comprises:

a frame having a rectangular opening,

a first platinum plated mesh with X-axis or horizontal strip bars and strip liners made of plated conductive material for mounting on said frame to allow water flow, and

a second platinum plated mesh with Y-axis or vertical strip bars and strip liners made of plated conductive material for mounting opposite to said first platinum plated meshes on said frame and allowing water flow.

43. (Original) An underwater discharge core as claimed in claim 42, wherein said first platinum plated mesh and second platinum plated mesh are made of the plated platinum group, plated Iridium or plated platinum.

44. (Original) An underwater discharge core as claimed in claim 42, further comprises that at least one pair of retainer and retainer clip is installed to fix said first platinum plated mesh and second platinum plated on the frame.